

10G Base-T, Single, LAN Transformer, PoE++

ALAN-2402

RoHS/RoHS II Compliant



13.65 x 15.00 x 6.25 mm

FEATURES:

- Meet IEEE802.3 specification
- Power Over Ethernet(PoE++) IEEE802.3ab compliant performance
- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 10G Ethernet-LAN
- PoE++ Capabilities
- Provides signal conditioning, EMI suppression and signal isolation.
- Hubs/Switches/Routers/Servers/NIC Cards

STANDARD SPECIFICATIONS:

Key Electrical Specifications @ 25°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		+70	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (±2%)		1CT: 1CT			Primary: Secondary
Inductance	62			μH	Primary@100KHz/0.1V
Insertion Loss			-0.3	dB	1MHz
			-1		2-300MHz
			-1.5		400MHz
			-2		500MHz
Return Loss	-18				1-40MHz
	-17+10Log(f/40MHz)				40-500MHz
CM-DM Rejection Ratio		-48		dB	50MHz
		-42			100MHz
		-36			200MHz
		-33			300MHz
		-28			400MHz
		-28			500MHz
CM-CM Rejection Ratio		-30		dB	50MHz
		-27			100MHz
		-24			200MHz
		-22			300MHz
		-21			400MHz
		-20			500MHz
Crosstalk		-40		dB	1-100MHz
		-30			100-500MHz
Hi-Pot	1500VAC/1mA/1Sec				
PoE Current Capability			1000	mA	

Notes:

1. All 4 center taps handle 1A current simultaneously, designed to support 57V, 100W applications when using all 4 channels.
2. Cross reference to Belfuse S558-10GB-02V

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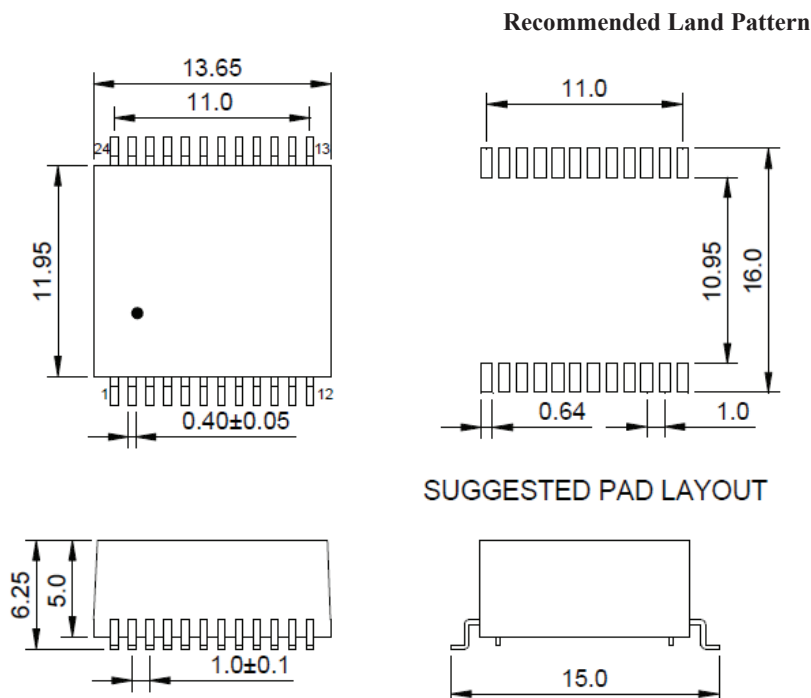
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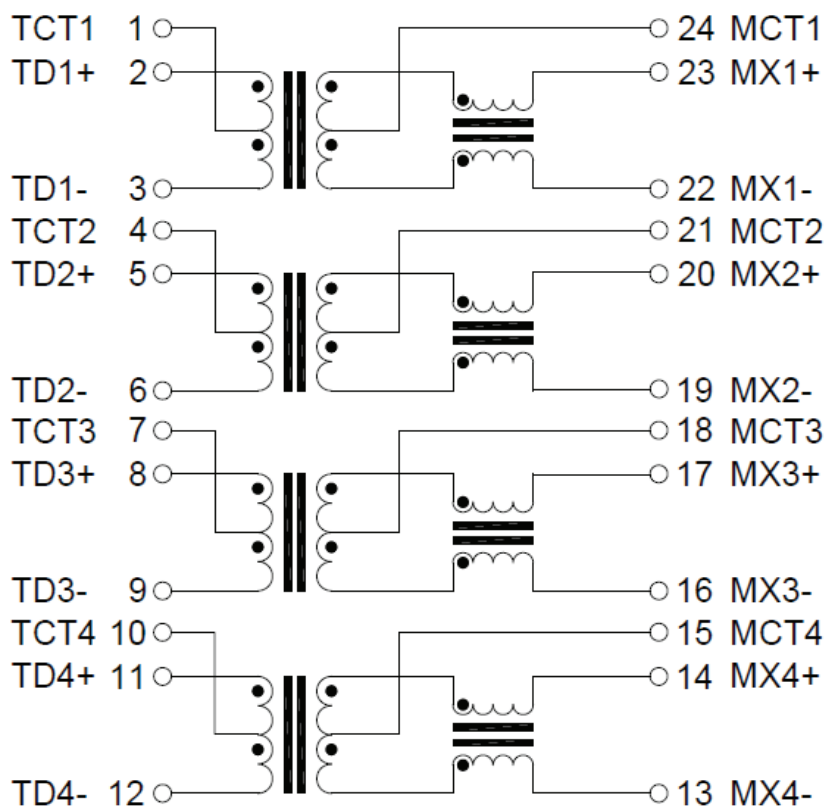
18.03 x 15.50 x 7.62mm

OUTLINE DIMENSIONS:



Dimensions: mm (Unless otherwise specified, tolerances are $\pm 0.010/0.25$)

SCHEMATICS



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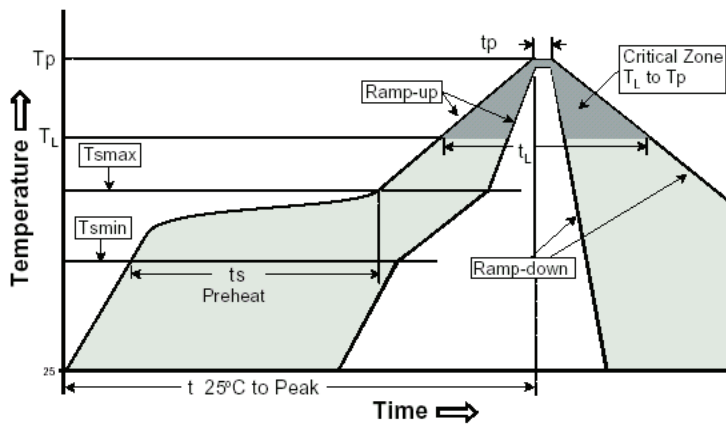
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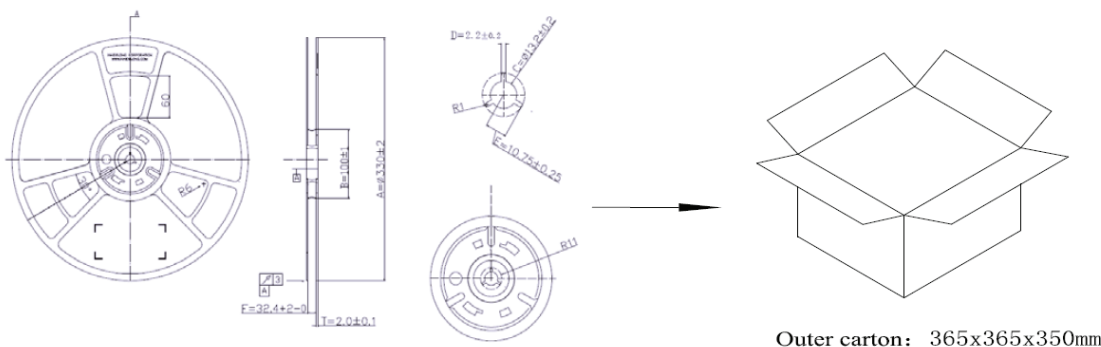
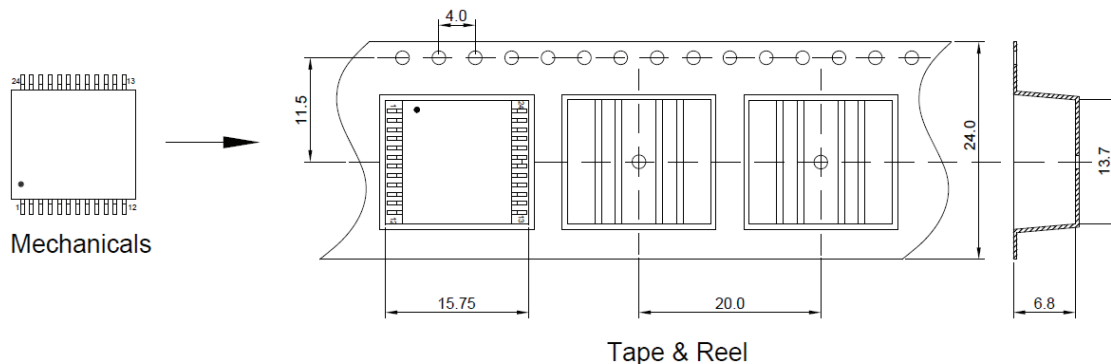
REFLOW PROFILE:



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts max to Tp)	3°C /second max.
Preheat	
-Temperature Min (Ts min)	150°C
-Temperature Max (Ts max)	200°C
-Time (ts min to ts max)	60-120 seconds
Time maintained above:	
-Temperature (Tl)	217°C
-Time (tL)	60-150 seconds
Peak/Classification Temperature (Tp)	245±5°C
Time within 5°C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6°C /seconds max
Time 25°C to Peak Temperature	8 minutes max.

TAPE & REEL:

Packing Weight: 400pcs /Tape & Reel
1.4 grams/pcs



Outer Carton (optional): 4000 pcs/10 T&R/box
Weight: 11.5kg per carton

Dimensions: mm

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